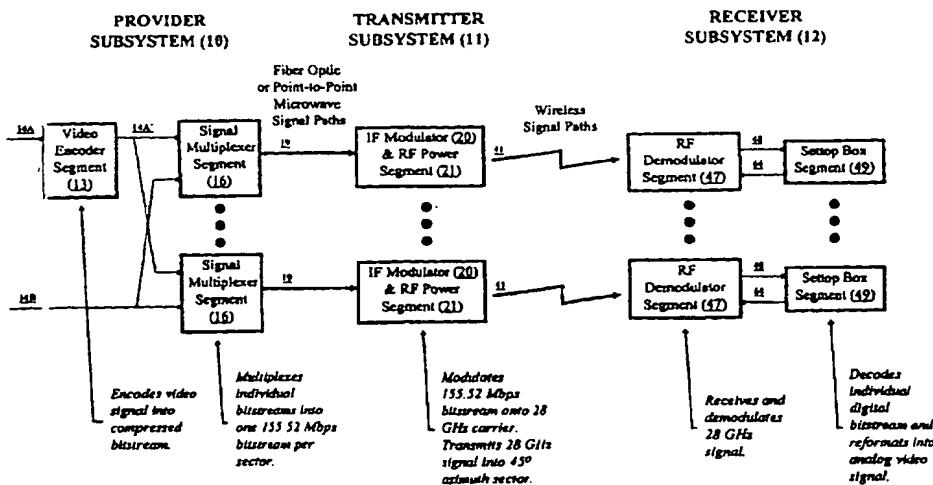


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(54) Title: MULTICHANNEL RADIO FREQUENCY TRANSMISSION SYSTEM TO DELIVER WIDE BAND DIGITAL DATA INTO INDEPENDENT SECTORIZED SERVICE AREAS



(57) Abstract

A one-way and two-way multichannel radio frequency transmission system and method employing sectorized broadcasting and reduces the effective bandwidth of the broadcast signal by multiplexing (16) available channels of signals (14) into a set of formatted independent digital bitstreams, each bitstream including all or a portion of available channels provided by the system program provider (10). The independent bitstreams are transmitted to transmitter towers using point-to-point transmission (19) methods. The transmitting towers phase modulate (20) and amplify the bitstreams to generate a set of independent modulated signals. Each transmitter tower includes a sectorized antenna for broadcasting (41) the modulated signals to a sectorized service area at a different frequency and opposite polarity than adjacent areas, so that each service area receives a different set of independent modulated signals. Each subscriber site (49) demodulates, demultiplexes and selects one channel from the received modulated signal.

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